<110> Walker, John
       Lee, Rogan
       Dougherty, Stephen W.

<120> Antigen Composition Against Mycoplasma

<130> U-011415-0

<140> US 08/913,430

<141> 1997-09-12

<150> PCT/AU96/00149

<151> 1996-03-15

<150> PN 1789

<151> 1995-03-16

<160> 18

<170> PatentIn Ver. 2.0 - beta

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<212> PRT

<213> Mycoplasma hyopneumoniae

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Gln Thr Glu Ser Gly Ser Thr Ser Asp Ser Lys Pro Gln Ala Glu Thr
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Leu Lys His Lys Val Ser Asn Asp Ser Ile Arg Ile Ala Leu Thr Asp
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Pro Asp Asn Pro Arg Trp Ile Ser Ala Gln Lys Asp Ile Ile Ser Tyr
    65                  70                  75                  80

Val Asp Glu Thr Glu Ala Ala Thr Ser Thr Ile Thr Lys Asn Gln Asp
                    85                  90                  95

Ala Gln Asn Asn Trp Leu Thr Gln Gln Ala Asn Leu Ser Pro Ala Pro
                100                 105                 110

Lys Gly Phe Ile Ile Ala Pro Glu Asn Gly Ser Gly Val Gly Thr Ala
            115                 120                 125

Val Asn Thr Ile Ala Asp Lys Gly Ile Pro Ile Val Ala Tyr Asp Arg
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Leu Ile Thr Gly Ser Asp Lys Tyr Asp Trp Tyr Val Ser Phe Asp Asn
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Glu Lys Val Gly Glu Leu Gln Gly Leu Ser Leu Ala Ala Gly Leu Leu
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Gly Lys Glu Asp Gly Ala Phe Asp Ser Ile Asp Gln Met Asn Glu Tyr
                180                 185                 190

Leu Lys Ser His Met Pro Gln Glu Thr Ile Ser Phe Tyr Thr Ile Ala
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Gly Ser Gln Asp Asp Asn Asn Ser Gln Tyr Phe Tyr Asn Gly Ala Met
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Leu Ser Pro Glu Gly Glu Asn Ala Val Tyr Val Pro Gly Trp Asn Tyr
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Gly Thr Ala Gly Gln Arg Ile Gln Ser Phe Leu Thr Ile Asn Lys Asp
            260             265             270

Pro Ala Gly Gly Asn Lys Ile Lys Ala Val Gly Ser Lys Pro Ala Ser
            275             280             285

Ile Phe Lys Gly Phe Leu Ala Pro Asn Asp Gly Met Ala Glu Gln Ala
        290             295             300

Ile Thr Lys Leu Lys Leu Glu Gly Phe Asp Thr Gln Lys Ile Phe Val
305             310             315             320

Thr Arg Gln Asp Tyr Asn Asp Lys Ala Lys Thr Phe Ile Lys Asp Gly
            325             330             335

Asp Gln Asn Met Thr Ile Tyr Lys Pro Asp Lys Val Leu Gly Lys Val
            340             345             350

Ala Val Glu Val Leu Arg Val Leu Ile Ala Lys Lys Asn Lys Ala Ser
        355             360             365

Arg Ser Glu Val Glu Asn Glu Leu Lys Ala Lys Leu Pro Asn Ile Ser
    370             375             380

Phe Lys Tyr Asp Asn Gln Thr Tyr Lys Val Gln Gly Lys Asn Ile Asn
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Pro Asp Ala

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<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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<210> 6

<211> 14

<212> PRT

- 6 -

<213> Mycoplasma hyopneumoniae

<400> 6

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<213> Mycoplasma hyopneumoniae

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Ala Trp Val Thr Ala Asp Gly Thr Val Asn
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Trp Val Arg Lys Tyr
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<222> (4)

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<220>

<221> VARIANT

<222> (5)

<223> Residue may be Arg or Glu

<220>

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<223> Residue may be Val or Ala

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<222> (11)

<223> Residue may be Gln or Ala

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<221> Unsure

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<223> Residue may be Met or Asn

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<213> Mycoplasma hyopneumoniae

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<221> Unsure

<222> (3)

<223> Undetermined

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Ala Leu

<210> 13

<211> 20

<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 13

Ala Lys Asn Phe Asp Phe Ala Pro Ser Ile Gln Gly Tyr Lys Lys Ile
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Ala His Glu Leu
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<210> 14

<211> 12

<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 14

Asn Leu Lys Pro Glu Gln Ile Leu Gln Leu Leu Gly
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<210> 15

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<220>

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<223> Undetermined

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Leu Asp Asn

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<211> 23

<212> DNA

<213> Mycoplasma hyopneumoniae

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<222> (3)

<223> primer sequence with modified base: inosine ("i")

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<221> modified_base

<222> (18)

<223> primer sequence with modified base: inosine ("i")

<400> 16

acnaacgacg agaagccnca ggc   23

<210> 17

<211> 23

<212> DNA

<213> Mycoplasma hyopneumoniae

<220>

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<222> (3)

<223> primer sequence with modified base: inosine ("i")

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<210> 18

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<212> DNA

<213> Mycoplasma hyopneumoniae

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